

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/037348

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N5/445

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| A          | US 2002/171624 A1 (STECYK ET AL)<br>21 November 2002 (2002-11-21)<br>paragraph '0042! - paragraph '0059! -<br>paragraph '0093! - paragraph '0107!<br>figures 1-6 | 1-18                  |
| A          | WO 99/27710 A (THOMSON CONSUMER<br>ELECTRONICS, INC.)<br>3 June 1999 (1999-06-03)<br>page 4, line 4 - page 9, line 29; figures<br>3-5                            | 1-18                  |
| A          | US 5 499 018 A (WELMER)<br>12 March 1996 (1996-03-12)<br>column 3, line 52 - column 5, line 64;<br>figures 1,2   | 1,9,15                |
|            | -----<br>-/-   |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the International search

3 June 2005

Date of mailing of the International search report

10/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Dudley, C

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/037348

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| P,A        | US 6 665 020 B1 (STAHL ET AL)<br>16 December 2003 (2003-12-16)<br>cited in the application<br>column 7, line 39 - column 10, line 57;<br>figure 5<br><br>----- | 1,9,15                |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/037348

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|----|---------------------|----------------------------|---------------------|
| US 2002171624                             | A1 | 21-11-2002          | JP 2004538680 T            | 24-12-2004          |
|   |    |                     | WO 02091114 A2             | 14-11-2002          |
|   |    |                     | US 2002171762 A1           | 21-11-2002          |
|   |    |                     | US 2003075983 A1           | 24-04-2003          |
|   |    |                     | US 2002174270 A1           | 21-11-2002          |
|   |    |                     | US 2002171763 A1           | 21-11-2002          |
| WO 9927710                                | A  | 03-06-1999          | AU 762427 B2               | 26-06-2003          |
|   |    |                     | AU 1591999 A               | 15-06-1999          |
|   |    |                     | AU 9319298 A               | 05-04-1999          |
|   |    |                     | AU 9320698 A               | 05-04-1999          |
|   |    |                     | BR 9814659 A               | 03-10-2000          |
|   |    |                     | CA 2318937 A1              | 03-06-1999          |
|   |    |                     | CN 1294816 A ,C            | 09-05-2001          |
|   |    |                     | CN 1294817 A ,C            | 09-05-2001          |
|   |    |                     | CN 1279860 A               | 10-01-2001          |
|   |    |                     | DE 69816334 D1             | 14-08-2003          |
|   |    |                     | DE 69816334 T2             | 13-05-2004          |
|   |    |                     | DE 69819757 D1             | 18-12-2003          |
|   |    |                     | DE 69819757 T2             | 22-04-2004          |
|   |    |                     | DE 69821503 D1             | 11-03-2004          |
|   |    |                     | DE 69821503 T2             | 05-01-2005          |
|   |    |                     | EP 1345424 A1              | 17-09-2003          |
|   |    |                     | EP 1016270 A1              | 05-07-2000          |
|   |    |                     | EP 1016271 A1              | 05-07-2000          |
|   |    |                     | EP 1034654 A1              | 13-09-2000          |
|   |    |                     | ES 2202916 T3              | 01-04-2004          |
|   |    |                     | JP 2001520464 T            | 30-10-2001          |
|   |    |                     | JP 2001517036 T            | 02-10-2001          |
|   |    |                     | JP 2001524785 T            | 04-12-2001          |
|   |    |                     | TR 200001498 T2            | 21-05-2001          |
|   |    |                     | WO 9914945 A1              | 25-03-1999          |
|   |    |                     | WO 9914946 A1              | 25-03-1999          |
|   |    |                     | WO 9927710 A1              | 03-06-1999          |
|   |    |                     | US 6665020 B1              | 16-12-2003          |
| US 5499018                                | A  | 12-03-1996          | AT 162025 T                | 15-01-1998          |
|   |    |                     | AT 176743 T                | 15-02-1999          |
|   |    |                     | DE 69223829 D1             | 12-02-1998          |
|   |    |                     | DE 69223829 T2             | 18-06-1998          |
|   |    |                     | DE 69228404 D1             | 25-03-1999          |
|   |    |                     | DE 69228404 T2             | 02-09-1999          |
|   |    |                     | EP 0505006 A2              | 23-09-1992          |
|   |    |                     | EP 0510739 A2              | 28-10-1992          |
|   |    |                     | ES 2130150 T3              | 01-07-1999          |
|   |    |                     | FI 921185 A                | 23-09-1992          |
|   |    |                     | FI 921186 A                | 23-09-1992          |
|   |    |                     | JP 3173846 B2              | 04-06-2001          |
|   |    |                     | JP 5145554 A               | 11-06-1993          |
|   |    |                     | JP 3173847 B2              | 04-06-2001          |
|   |    |                     | JP 5083266 A               | 02-04-1993          |
|   |    |                     | KR 268540 B1               | 16-10-2000          |
|   |    |                     | KR 238373 B1               | 15-01-2000          |
|   |    |                     | US 5815082 A               | 29-09-1998          |
| US 6665020                                | B1 | 16-12-2003          | AU 762427 B2               | 26-06-2003          |
|   |    |                     | AU 1591999 A               | 15-06-1999          |
|   |    |                     | AU 9319298 A               | 05-04-1999          |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/037348

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| US 6665020                                | B1                  | AU 9320698 A               | 05-04-1999          |
|   |                     | BR 9814659 A               | 03-10-2000          |
|   |                     | CA 2318937 A1              | 03-06-1999          |
|   |                     | CN 1294816 A ,C            | 09-05-2001          |
|   |                     | CN 1294817 A ,C            | 09-05-2001          |
|   |                     | CN 1279860 A               | 10-01-2001          |
|   |                     | DE 69816334 D1             | 14-08-2003          |
|   |                     | DE 69816334 T2             | 13-05-2004          |
|   |                     | DE 69819757 D1             | 18-12-2003          |
|   |                     | DE 69819757 T2             | 22-04-2004          |
|   |                     | DE 69821503 D1             | 11-03-2004          |
|   |                     | DE 69821503 T2             | 05-01-2005          |
|   |                     | EP 1345424 A1              | 17-09-2003          |
|   |                     | EP 1016270 A1              | 05-07-2000          |
|   |                     | EP 1016271 A1              | 05-07-2000          |
|   |                     | EP 1034654 A1              | 13-09-2000          |
|   |                     | ES 2202916 T3              | 01-04-2004          |
|   |                     | JP 2001520464 T            | 30-10-2001          |
|   |                     | JP 2001517036 T            | 02-10-2001          |
|   |                     | JP 2001524785 T            | 04-12-2001          |
|   |                     | TR 200001498 T2            | 21-05-2001          |
|   |                     | WO 9914945 A1              | 25-03-1999          |
|   |                     | WO 9914946 A1              | 25-03-1999          |
|   |                     | WO 9927710 A1              | 03-06-1999          |